

UCD\_CS\_R3

task1

TREC-IS 2020-A Task 1 Notebook Evaluator v2.4  
Run: UCD\_CS\_R3 (UCD\_CS\_R3.2020A.task1.run)

-----  
EVALUATOR: Alerting Performance  
Overall performance

-----  
> High Importance Alert Worth: -0.40732860520094355  
> Low Importance Alert Worth: -0.034952750907910383  
> Accumulated Alert Worth: -0.22114067805442697

-----  
EVALUATOR: nDCG and Priority  
Overall performance

-----  
> nDCG: 0.47555258745176743

-----  
EVALUATOR: Information Type Categorization  
Overall performance

-----  
> Information Type Precision (positive class, multi-type, macro): 0.1467315589419819  
> Information Type Recall (positive class, multi-type, macro): 0.2243473361546793  
> Information Type F1 (positive class, multi-type, macro): 0.15173472430053797  
> Information Type Accuracy (overall, multi-type, macro): 0.8926245195060113  
> High Importance Information Type Precision (positive class, multi-type, macro): 0.0805464095753721  
> High Importance Information Type Recall (positive class, multi-type, macro): 0.11256622109898005  
> High Importance Information Type F1 (positive class, multi-type, macro): 0.0934562685650631  
> High Importance Information Type Accuracy (overall, multi-type, macro): 0.9625010223276355  
> Low Importance Information Type Precision (positive class, multi-type, macro): 0.16763213242617447  
> Low Importance Information Type Recall (positive class, multi-type, macro): 0.25964663564595275  
> Low Importance Information Type F1 (positive class, multi-type, macro): 0.17013844716437213  
> Low Importance Information Type Accuracy (overall, multi-type, macro): 0.8705582554570773

-----  
EVALUATOR: Information Priority Level  
Overall Performance

-----  
> Priority Label Prediction (F1, macro): 0.26268050092193784  
> Priority Label Prediction High Importance (F1, macro): 0.2642102508094528  
> Priority Label Prediction Low Importance (F1, macro): 0.262197422010091

-----  
LATEX

-----  
UCD\_CS\_R3 & 0.4756 & -0.4073 & -0.2211 & 0.0935 & 0.1517 & 0.8926 & 0.2642 & 0.2627 \\  
-----

TREC-IS 2020-A Task 1 Notebook Evaluator v2.4

Run: UCD\_CS\_R3 (UCD\_CS\_R3.2020A.task1.run)

-----  
EVALUATION: Information Type Categorization (Multi-type)Per Event Performance  
-----

## athensEarthquake2020

Information Type Precision (positive class, multi-type, macro): 0.09303263654815741  
Information Type Recall (positive class, multi-type, macro): 0.1044183346065699  
Information Type F1 (positive class, multi-type, macro): 0.07612954040626416  
Information Type Accuracy (overall, multi-type, macro): 0.890909090909091  
High Importance Information Type Precision (positive class, multi-type, macro): 0.018518518518518517  
High Importance Information Type Recall (positive class, multi-type, macro): 0.14285714285714285  
High Importance Information Type F1 (positive class, multi-type, macro): 0.03278688524590164  
High Importance Information Type Accuracy (overall, multi-type, macro): 0.9630021141649047  
Low Importance Information Type Precision (positive class, multi-type, macro): 0.11656341066278021  
Low Importance Information Type Recall (positive class, multi-type, macro): 0.09227976358007318  
Low Importance Information Type F1 (positive class, multi-type, macro): 0.08981669466743127  
Low Importance Information Type Accuracy (overall, multi-type, macro): 0.8681428730388339

## baltimoreFlashFlood2020

Information Type Precision (positive class, multi-type, macro): 0.03981981981981982  
Information Type Recall (positive class, multi-type, macro): 0.01888888888888889  
Information Type F1 (positive class, multi-type, macro): 0.025623188405797106  
Information Type Accuracy (overall, multi-type, macro): 0.9428571428571427  
High Importance Information Type Precision (positive class, multi-type, macro): 0.0  
High Importance Information Type Recall (positive class, multi-type, macro): 0.0  
High Importance Information Type F1 (positive class, multi-type, macro): 0.0  
High Importance Information Type Accuracy (overall, multi-type, macro): 0.9950248756218905  
Low Importance Information Type Precision (positive class, multi-type, macro): 0.05239449976292082  
Low Importance Information Type Recall (positive class, multi-type, macro): 0.024853801169590642  
Low Importance Information Type F1 (positive class, multi-type, macro): 0.03371472158657514  
Low Importance Information Type Accuracy (overall, multi-type, macro): 0.9263831219840646

## brooklynBlockPartyShooting2020

Information Type Precision (positive class, multi-type, macro): 0.21257885383152242  
Information Type Recall (positive class, multi-type, macro): 0.14788325265888214  
Information Type F1 (positive class, multi-type, macro): 0.16223891636083007  
Information Type Accuracy (overall, multi-type, macro): 0.8740709812108558  
High Importance Information Type Precision (positive class, multi-type, macro): 0.08333333333333333  
High Importance Information Type Recall (positive class, multi-type, macro): 0.08333333333333333  
High Importance Information Type F1 (positive class, multi-type, macro): 0.08263305322128851  
High Importance Information Type Accuracy (overall, multi-type, macro): 0.9902574808629089  
Low Importance Information Type Precision (positive class, multi-type, macro): 0.2533932287256874  
Low Importance Information Type Recall (positive class, multi-type, macro): 0.16826743770905547  
Low Importance Information Type F1 (positive class, multi-type, macro): 0.1873776099838432

Low Importance Information Type Accuracy (overall, multi-type, macro): 0.8373805076365235

## daytonOhioShooting2020

Information Type Precision (positive class, multi-type, macro): 0.0667184387856078

Information Type Recall (positive class, multi-type, macro): 0.07271310507674145

Information Type F1 (positive class, multi-type, macro): 0.05428664803490205

Information Type Accuracy (overall, multi-type, macro): 0.916715789473684

High Importance Information Type Precision (positive class, multi-type, macro): 0.0

High Importance Information Type Recall (positive class, multi-type, macro): 0.0

High Importance Information Type F1 (positive class, multi-type, macro): 0.0

High Importance Information Type Accuracy (overall, multi-type, macro): 0.9880701754385965

Low Importance Information Type Precision (positive class, multi-type, macro): 0.0877874194547471

Low Importance Information Type Recall (positive class, multi-type, macro): 0.09567513825887032

Low Importance Information Type F1 (positive class, multi-type, macro): 0.07142980004592375

Low Importance Information Type Accuracy (overall, multi-type, macro): 0.8941828254847644

## elPasoWalmartShooting2020

Information Type Precision (positive class, multi-type, macro): 0.12234750987157277

Information Type Recall (positive class, multi-type, macro): 0.18448553168368714

Information Type F1 (positive class, multi-type, macro): 0.12275991567772616

Information Type Accuracy (overall, multi-type, macro): 0.9283296213808465

High Importance Information Type Precision (positive class, multi-type, macro): 0.0

High Importance Information Type Recall (positive class, multi-type, macro): 0.0

High Importance Information Type F1 (positive class, multi-type, macro): 0.0

High Importance Information Type Accuracy (overall, multi-type, macro): 0.9855233853006681

Low Importance Information Type Precision (positive class, multi-type, macro): 0.1609835656204905

Low Importance Information Type Recall (positive class, multi-type, macro): 0.24274412063643047

Low Importance Information Type F1 (positive class, multi-type, macro): 0.16152620483911337

Low Importance Information Type Accuracy (overall, multi-type, macro): 0.9102684327745868

## gilroygarlicShooting2020

Information Type Precision (positive class, multi-type, macro): 0.17041848918251376

Information Type Recall (positive class, multi-type, macro): 0.12543735526039979

Information Type F1 (positive class, multi-type, macro): 0.1361623120403043

Information Type Accuracy (overall, multi-type, macro): 0.9375319148936171

High Importance Information Type Precision (positive class, multi-type, macro): 0.0

High Importance Information Type Recall (positive class, multi-type, macro): 0.0

High Importance Information Type F1 (positive class, multi-type, macro): 0.0

High Importance Information Type Accuracy (overall, multi-type, macro): 0.9939716312056737

Low Importance Information Type Precision (positive class, multi-type, macro): 0.2242348541875181

Low Importance Information Type Recall (positive class, multi-type, macro): 0.16504915165842077

Low Importance Information Type F1 (positive class, multi-type, macro): 0.17916093689513723

Low Importance Information Type Accuracy (overall, multi-type, macro): 0.9197088465845465

## hurricaneBarry2020

Information Type Precision (positive class, multi-type, macro): 0.0726459554727039

Information Type Recall (positive class, multi-type, macro): 0.2119543337525034

Information Type F1 (positive class, multi-type, macro): 0.07049608148026601  
Information Type Accuracy (overall, multi-type, macro): 0.8801705756929636  
High Importance Information Type Precision (positive class, multi-type, macro): 0.050975177304964536  
High Importance Information Type Recall (positive class, multi-type, macro): 0.1722222222222222  
High Importance Information Type F1 (positive class, multi-type, macro): 0.07158495582140902  
High Importance Information Type Accuracy (overall, multi-type, macro): 0.9282160625444208  
Low Importance Information Type Precision (positive class, multi-type, macro): 0.0794893591046216  
Low Importance Information Type Recall (positive class, multi-type, macro): 0.2245013163410132  
Low Importance Information Type F1 (positive class, multi-type, macro): 0.0701522264251682  
Low Importance Information Type Accuracy (overall, multi-type, macro): 0.8649983166872404

## indonesiaEarthquake2020

Information Type Precision (positive class, multi-type, macro): 0.19549746693159198  
Information Type Recall (positive class, multi-type, macro): 0.13769640576997347  
Information Type F1 (positive class, multi-type, macro): 0.13239282383801146  
Information Type Accuracy (overall, multi-type, macro): 0.8842553191489364  
High Importance Information Type Precision (positive class, multi-type, macro): 0.2690409497132186  
High Importance Information Type Recall (positive class, multi-type, macro): 0.13826869322152338  
High Importance Information Type F1 (positive class, multi-type, macro): 0.1747981522597891  
High Importance Information Type Accuracy (overall, multi-type, macro): 0.8858156028368795  
Low Importance Information Type Precision (positive class, multi-type, macro): 0.17227320921107828  
Low Importance Information Type Recall (positive class, multi-type, macro): 0.1375156834168524  
Low Importance Information Type F1 (positive class, multi-type, macro): 0.11900166749429222  
Low Importance Information Type Accuracy (overall, multi-type, macro): 0.8837625979843224

## keralaFloods2020

Information Type Precision (positive class, multi-type, macro): 0.26914094773869174  
Information Type Recall (positive class, multi-type, macro): 0.25370909231204797  
Information Type F1 (positive class, multi-type, macro): 0.20559930138521043  
Information Type Accuracy (overall, multi-type, macro): 0.8447058823529412  
High Importance Information Type Precision (positive class, multi-type, macro): 0.0  
High Importance Information Type Recall (positive class, multi-type, macro): 0.0  
High Importance Information Type F1 (positive class, multi-type, macro): 0.0  
High Importance Information Type Accuracy (overall, multi-type, macro): 0.9254049445865302  
Low Importance Information Type Precision (positive class, multi-type, macro): 0.35413282597196283  
Low Importance Information Type Recall (positive class, multi-type, macro): 0.3338277530421684  
Low Importance Information Type F1 (positive class, multi-type, macro): 0.27052539655948743  
Low Importance Information Type Accuracy (overall, multi-type, macro): 0.8192219679633868

## myanmarFloods2020

Information Type Precision (positive class, multi-type, macro): 0.2249239163551224  
Information Type Recall (positive class, multi-type, macro): 0.20961725812376386  
Information Type F1 (positive class, multi-type, macro): 0.18992361583742148  
Information Type Accuracy (overall, multi-type, macro): 0.9143829787234042  
High Importance Information Type Precision (positive class, multi-type, macro): 0.020833333333333333  
High Importance Information Type Recall (positive class, multi-type, macro): 0.09523809523809523  
High Importance Information Type F1 (positive class, multi-type, macro): 0.034188034188034185

High Importance Information Type Accuracy (overall, multi-type, macro): 0.9574468085106383  
Low Importance Information Type Precision (positive class, multi-type, macro): 0.28937357415147685  
Low Importance Information Type Recall (positive class, multi-type, macro): 0.24573699377186975  
Low Importance Information Type F1 (positive class, multi-type, macro): 0.23910327320038588  
Low Importance Information Type Accuracy (overall, multi-type, macro): 0.900783874580067

## papuaNewguineaEarthquake2020

Information Type Precision (positive class, multi-type, macro): 0.2489210526482275  
Information Type Recall (positive class, multi-type, macro): 0.20451610248262006  
Information Type F1 (positive class, multi-type, macro): 0.1676787202144851  
Information Type Accuracy (overall, multi-type, macro): 0.8680089485458615  
High Importance Information Type Precision (positive class, multi-type, macro): 0.13434343434343435  
High Importance Information Type Recall (positive class, multi-type, macro): 0.1994949494949495  
High Importance Information Type F1 (positive class, multi-type, macro): 0.12967914438502673  
High Importance Information Type Accuracy (overall, multi-type, macro): 0.9425801640566741  
Low Importance Information Type Precision (positive class, multi-type, macro): 0.28510345842868845  
Low Importance Information Type Recall (positive class, multi-type, macro): 0.20610172974188445  
Low Importance Information Type F1 (positive class, multi-type, macro): 0.179678586265893  
Low Importance Information Type Accuracy (overall, multi-type, macro): 0.84446014364771

## siberianWildfires2020

Information Type Precision (positive class, multi-type, macro): 0.11656152747517816  
Information Type Recall (positive class, multi-type, macro): 0.10466270051088021  
Information Type F1 (positive class, multi-type, macro): 0.08600452884480518  
Information Type Accuracy (overall, multi-type, macro): 0.8767088607594937  
High Importance Information Type Precision (positive class, multi-type, macro): 0.022988505747126436  
High Importance Information Type Recall (positive class, multi-type, macro): 0.009523809523809523  
High Importance Information Type F1 (positive class, multi-type, macro): 0.013468013468013467  
High Importance Information Type Accuracy (overall, multi-type, macro): 0.950070323488045  
Low Importance Information Type Precision (positive class, multi-type, macro): 0.1461109027577208  
Low Importance Information Type Recall (positive class, multi-type, macro): 0.13470656082258672  
Low Importance Information Type F1 (positive class, multi-type, macro): 0.10891079685852888  
Low Importance Information Type Accuracy (overall, multi-type, macro): 0.8535420830557405

## typhoonKrosa2020

Information Type Precision (positive class, multi-type, macro): 0.03794935594851867  
Information Type Recall (positive class, multi-type, macro): 0.114203915860666  
Information Type F1 (positive class, multi-type, macro): 0.017044592473076724  
Information Type Accuracy (overall, multi-type, macro): 0.8339055793991416  
High Importance Information Type Precision (positive class, multi-type, macro): 0.0032051282051282055  
High Importance Information Type Recall (positive class, multi-type, macro): 0.08333333333333333  
High Importance Information Type F1 (positive class, multi-type, macro): 0.006172839506172839  
High Importance Information Type Accuracy (overall, multi-type, macro): 0.9717453505007153  
Low Importance Information Type Precision (positive class, multi-type, macro): 0.0489212173411683  
Low Importance Information Type Recall (positive class, multi-type, macro): 0.12395252050798237  
Low Importance Information Type F1 (positive class, multi-type, macro): 0.020477777620520058  
Low Importance Information Type Accuracy (overall, multi-type, macro): 0.7903772306302236

## typhoonLekima2020

Information Type Precision (positive class, multi-type, macro): 0.08900228645907332  
Information Type Recall (positive class, multi-type, macro): 0.16698250573538329  
Information Type F1 (positive class, multi-type, macro): 0.06886861164587223  
Information Type Accuracy (overall, multi-type, macro): 0.851769722814499  
High Importance Information Type Precision (positive class, multi-type, macro): 0.06845238095238095  
High Importance Information Type Recall (positive class, multi-type, macro): 0.10658914728682171  
High Importance Information Type F1 (positive class, multi-type, macro): 0.06458333333333333  
High Importance Information Type Accuracy (overall, multi-type, macro): 0.9772565742714995  
Low Importance Information Type Precision (positive class, multi-type, macro): 0.09549173030329194  
Low Importance Information Type Recall (positive class, multi-type, macro): 0.1860540926138764  
Low Importance Information Type F1 (positive class, multi-type, macro): 0.07022185742877926  
Low Importance Information Type Accuracy (overall, multi-type, macro): 0.812142296038604

## whaleyBridgeCollapse2020

Information Type Precision (positive class, multi-type, macro): 0.29497768573902855  
Information Type Recall (positive class, multi-type, macro): 0.21293254493481018  
Information Type F1 (positive class, multi-type, macro): 0.2281323118544052  
Information Type Accuracy (overall, multi-type, macro): 0.8752380952380951  
High Importance Information Type Precision (positive class, multi-type, macro): 0.26388888888888889  
High Importance Information Type Recall (positive class, multi-type, macro): 0.1156156156156156  
High Importance Information Type F1 (positive class, multi-type, macro): 0.1478126209833527  
High Importance Information Type Accuracy (overall, multi-type, macro): 0.9047619047619048  
Low Importance Information Type Precision (positive class, multi-type, macro): 0.3047952005338095  
Low Importance Information Type Recall (positive class, multi-type, macro): 0.24366420682508214  
Low Importance Information Type F1 (positive class, multi-type, macro): 0.2534964247610534  
Low Importance Information Type Accuracy (overall, multi-type, macro): 0.8659147869674185

**UCD\_CS\_R3****task1**

TREC-IS 2020-A Task 1 Notebook Evaluator v2.4

Run: UCD\_CS\_R3 (UCD\_CS\_R3.2020A.task1.run)

-----  
EVALUATION: Information Type Categorization (Multi-type)  
Per Information Type Performance  
-----

Request-GoodsServices				
	precision	recall	f1-score	support
Other Classes	1.00	1.00	1.00	12216
Request-GoodsServices	0.00	0.00	0.00	11
avg / total	1.00	1.00	1.00	12227
Request-SearchAndRescue				
	precision	recall	f1-score	support
Other Classes	1.00	1.00	1.00	12216
Request-SearchAndRescue	0.00	0.00	0.00	11
avg / total	1.00	1.00	1.00	12227
Request-InformationWanted				
	precision	recall	f1-score	support
Other Classes	1.00	1.00	1.00	12196
Request-InformationWanted	0.00	0.00	0.00	31
avg / total	0.99	0.99	0.99	12227
CallToAction-Volunteer				
	precision	recall	f1-score	support
Other Classes	1.00	1.00	1.00	12214
CallToAction-Volunteer	0.12	0.46	0.19	13
avg / total	1.00	1.00	1.00	12227
CallToAction-Donations				
	precision	recall	f1-score	support
Other Classes	1.00	1.00	1.00	12197

**UCD\_CS\_R3****task1**

CallToAction-Donations	0.22	0.37	0.27	30
avg / total	1.00	1.00	1.00	12227

CallToAction-MovePeople				
	precision	recall	f1-score	support
Other Classes	0.99	0.99	0.99	12109
CallToAction-MovePeople	0.27	0.36	0.31	118
avg / total	0.99	0.98	0.99	12227

Report-FirstPartyObservation				
	precision	recall	f1-score	support
Other Classes	1.00	0.98	0.99	12187
Report-FirstPartyObservation	0.02	0.12	0.03	40
avg / total	0.99	0.97	0.98	12227

Report-ThirdPartyObservation				
	precision	recall	f1-score	support
Other Classes	0.97	0.86	0.91	11890
Report-ThirdPartyObservation	0.03	0.13	0.04	337
avg / total	0.95	0.84	0.89	12227

Report-Weather				
	precision	recall	f1-score	support
Other Classes	0.99	0.89	0.94	12080
Report-Weather	0.03	0.32	0.06	147
avg / total	0.98	0.89	0.93	12227

Report-Location				
	precision	recall	f1-score	support
Other Classes	0.75	0.88	0.81	8786
Report-Location	0.44	0.24	0.31	3441



**UCD\_CS\_R3****task1**

avg / total	0.66	0.70	0.67	12227
-------------	------	------	------	-------

## Report-EmergingThreats

	precision	recall	f1-score	support
Other Classes	0.94	0.91	0.93	11419
Report-EmergingThreats	0.15	0.21	0.17	808
avg / total	0.89	0.87	0.88	12227

## Report-NewSubEvent

	precision	recall	f1-score	support
Other Classes	0.97	0.97	0.97	11828
Report-NewSubEvent	0.02	0.02	0.02	399
avg / total	0.94	0.94	0.94	12227

## Report-MultimediaShare

	precision	recall	f1-score	support
Other Classes	0.83	0.76	0.79	9860
Report-MultimediaShare	0.27	0.36	0.31	2367
avg / total	0.72	0.68	0.70	12227

## Report-ServiceAvailable

	precision	recall	f1-score	support
Other Classes	1.00	0.99	1.00	12185
Report-ServiceAvailable	0.05	0.10	0.06	42
avg / total	0.99	0.99	0.99	12227

## Report-Factoid

	precision	recall	f1-score	support
Other Classes	0.91	0.88	0.90	10563
Report-Factoid	0.39	0.48	0.43	1664
avg / total	0.84	0.83	0.83	12227

**UCD\_CS\_R3****task1**

## Report-Official

	precision	recall	f1-score	support
Other Classes	0.97	0.97	0.97	11844
Report-Official	0.17	0.17	0.17	383
avg / total	0.95	0.95	0.95	12227

## Report-News

	precision	recall	f1-score	support
Other Classes	0.91	0.63	0.74	10583
Report-News	0.20	0.57	0.29	1644
avg / total	0.81	0.62	0.68	12227

## Report-CleanUp

	precision	recall	f1-score	support
Other Classes	1.00	0.99	1.00	12220
Report-CleanUp	0.03	0.29	0.06	7
avg / total	1.00	0.99	1.00	12227

## Report-Hashtags

	precision	recall	f1-score	support
Other Classes	0.89	0.90	0.89	10806
Report-Hashtags	0.19	0.19	0.19	1421
avg / total	0.81	0.81	0.81	12227

## Report-OriginalEvent

	precision	recall	f1-score	support
Other Classes	0.98	0.95	0.96	11999
Report-OriginalEvent	0.00	0.00	0.00	228
avg / total	0.96	0.93	0.95	12227

## Other-ContextualInformation

**UCD\_CS\_R3****task1**

	precision	recall	f1-score	support
Other Classes	0.96	0.98	0.97	11732
Other-ContextualInformation	0.02	0.01	0.01	495
avg / total	0.92	0.94	0.93	12227

## Other-Advice

	precision	recall	f1-score	support
Other Classes	0.99	0.97	0.98	12084
Other-Advice	0.14	0.38	0.21	143
avg / total	0.98	0.97	0.97	12227

## Other-Sentiment

	precision	recall	f1-score	support
Other Classes	0.99	0.95	0.97	12055
Other-Sentiment	0.11	0.40	0.17	172
avg / total	0.98	0.95	0.96	12227

## Other-Discussion

	precision	recall	f1-score	support
Other Classes	1.00	0.96	0.98	12197
Other-Discussion	0.01	0.10	0.01	30
avg / total	1.00	0.96	0.98	12227

## Other-Irrelevant

	precision	recall	f1-score	support
Other Classes	0.42	0.86	0.56	4339
Other-Irrelevant	0.81	0.34	0.48	7888
avg / total	0.67	0.52	0.51	12227